

Tianren Tan

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SUMMARY

Objective: Actively seeking Summer 2022 internships and New Grad positions

Languages: Java, C++, C#, JavaScript, MySQL, Python, HTML/CSS

Frameworks: Node.js, Koa.js, Vue.js, React, OpenCV, jQuery, Spring Boot, RxJava

Platforms and Tools: Maven, Git, Tomcat, IntelliJ IDEA, VScode, Excel, PowerPoint

EXPERIENCE

Alibaba Group

September 2020 – November 2020

Software Development Internship

Beijing, China

- Implemented an intuitive design for a traffic monitoring dashboard using **Vue**, **HTML/CSS**, conducted several statistical analytics on mobile and desktop website traffic, which was used for development strategic decisions.
- Reduced latency by **30%** through adapting lazy loading.
- Constructed a streaming data pipeline for raw queried data, imported processed figures into **OceanBase**.
- Cooperated **Koa and Node.js** for backend design, implemented a comprehensive RESTful API. Enhanced asynchronous call-back using **axios**.

CertiK

June 2019 - August 2019

Front-end Development Internship

New York City, USA

- Restructured company's Chinese and English main site using **React**. Designed a responsive user interface and implemented search engine optimization. Deployed and launched website using **Netlify and Gatsby**, improved website response speed by **10%**.
- Developed and deployed a Google Chrome plug-in for peer point testing in the CertiK Testnet using **JavaScript and CSS**. Reduced process time for internal users and developers to switch from external nodes to Testnet from **several minutes to one second**.
- Unit-tested with **Jest** integrated on UNIX. Maintained company website code base, individually detected and solved several potential vulnerabilities.

PROJECTS

MBTA Manager | *Xamarin, C#*

July 2018 – August 2018

- Independently developed in only **two weeks** a cross platform mobile application using **Xamarin**, providing travelling information, alert notification services and schedule optimizations in Boston. Rated No 1 project in a Harvard class of 20+ competitive peers.
- Established a concise and presentational code-base using MVVM design pattern, decreased startup time by **2 seconds**.

Coupon Exchange Platform | *Android, Java, Retrofit, OkHttp*

June 2017 - November 2017

- Implemented reactive programming with **RxAndroid** to enhance asynchronous performance
- Reduced page rendering time by **30%** by implementing **Disk LRU Cache**
- Established asynchronous and type-safe HTTP requests using **Retrofit2** to interact with back-end API

APAP-Processor | *C++, OpenCV, Eigen*

September 2017 - February 2018

- Performed highly precise feature points marking with SIFT and RANSAC, achieved **90%** accuracy on public testing data up to **1500x2000 pixels** large.
- Introduced **super pixel segmentation** in image preprocessing, increased image stitching validity by **2.8%**.

EDUCATION

University of California, Irvine

California, USA

Master of Software Engineering

September 2021 - December 2022 (Expected)

- GPA:** 4.0

Wuhan University

Hubei, China

Bachelor of Software Engineering

September 2016 - June 2020

- Vice President of Microsoft Student Club
- Best Mobile Application Prize** from 13th Citi Cup Financial Innovation and Application competition
- Honorable mention in 2018 US Mathematical Contest in Modeling